

## IN THE CLAIMS

Please amend the claims as indicated:

1-58 Canceled.

1 59. (previously presented) An apparatus for use while drilling a borehole, said apparatus  
2 comprising:

3                   (a) a longitudinal member for rotating a drill bit and adapted to be conveyed  
4                   in the borehole;

5 (b) an acoustic transmitter on a sleeve slidably coupled to said longitudinal  
6 member and

7 (c) an acoustic receiver spaced apart from said acoustic transmitter, said  
8 acoustic transmitter disposed on a sleeve slidably coupled to said  
9 longitudinal member

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1 60. (new) The apparatus of claim 59 wherein said sleeve in (b) is the same as the  
2 sleeve in (c).

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1 61. (new) The apparatus of claim 59 wherein said acoustic transmitter comprises a  
2 three-component transmitter

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1 62. (previously presented) The apparatus of claim 59 wherein said acoustic receiver  
2 comprises a three-component receiver.

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1 63. (previously presented) The apparatus of claim 59 wherein said acoustic transmitter  
2 comprises one of (A) a pulse transmitter, and, (B) a swept frequency transmitter.

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1 64. (currently amended) A method of determining a parameter of interest of an earth  
2 formation penetrated by a borehole during drilling operations, the method  
3 comprising:

- 4 (a) conveying a bottom hole assembly (BHA) into the borehole, said BHA  
5 including a longitudinal member for rotating a drill bit thereon;
- 6 (b) maintaining an acoustic transmitter on said BHA in a substantially non-  
7 rotating position and propagating acoustic signals into said formation;
- 8 (c) maintaining an acoustic receiver on said BHA in a substantially non-  
9 rotating position and receiving an acoustic signal resulting from  
10 interaction of said propagating signals with said formation; and  
11 (e) (d) determining from said received acoustic signals said parameter of interest.

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1 65. (previously presented) The method of claim 64 wherein said received acoustic signals  
2 comprise reflections from a seismic reflector in the vicinity of said borehole.

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1 66. (previously presented) The method of claim 65 wherein said parameter of interest  
2 comprises a distance to said seismic reflector,

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1 67. (previously presented)The method of claim 66 further comprising guiding said BHA  
2 at least partially in response to said determined distance.

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1 68. (previously presented)The method of claim 64 further comprising maintaining said  
2 acoustic transmitter and said acoustic receiver at a specified distance from each  
3 other.

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